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Denton, M.; Palmer, A.; Masiello, R.; Skantze, P.;

Power Systems, IEEE Transactions on , Volume: 18 Issue: 2 , May 2003

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2 Conditional value-at-risk: optimization algorithms and applications

Uryasev, S.;

Computational Intelligence for Financial Engineering, 2000. (CIFEr) Proceedings

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3 Developing a decision support system for optimizing automated wafer fabrication

Pillai, D.;

Electronic Manufacturing Technology Symposium, 1988, 'Design-to-Manufacturing Transfer Cycle'. Fifth IEEE/CHMT International , 10-12 Oct. 1988

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4 A risk-sensitive escape criterion and robust limit

McEneaney, W.M.; Dupuis, P.;

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5 Considering risk profiles in design optimization for series-parallel systems
Coit, D.W.; Smith, A.E.;
Reliability and Maintainability Symposium. 1997 Proceedings, Annual , 13-16 Ja

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6 Characterization of the value function for a differential game formulation in queueing network optimization problem
Atar, R.; Dupuis, P.;
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7 Multi-level risk-controlled sector optimization of domestic and international fixed-income portfolios including conditional VaR
D'Vari, R.; Sosa, J.C.; Yalamanchili, K.K.;
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8 An optimization model for a company with constraints on risk control
Choulli, T.; Taksar, M.; Xun Yu Zhou;
Decision and Control, 2001. Proceedings of the 40th IEEE Conference on , Volum
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9 Mathematical model of earthquake bond for managing financial risk caused by earthquake
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10 Evaluating strategies for foreign exchange risk reduction
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11 A type-II censored, log test time based, component-testing procedure for parallel system
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13 Learning to trade via direct reinforcement
Moody, J.; Saffell, M.;
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14 Analytical tools for the management of faster-better-cheaper space missions
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Aerospace Conference, 1998. Proceedings., IEEE , Volume: 5 , 21-28 March 1998
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15 Increasing hemodialysis efficiency by a recirculating dialysate system managed by a telehealthcare center*Prado, M.; Roa, L.; Reina-Tosina, J.; Palma, A.; Milan, J.A.;*

Information Technology Applications in Biomedicine, 2003. 4th International IEE Special Topic Conference on , 24-26 April 2003

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OCEANS, Volume: 16, Sep 1984

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Data Compression Conference, 1994. DCC '94. Proceedings, 29-31 March 1994

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**20 Controlled Markov chains with discounted risk-sensitive criteria:
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Avila-Godoy, G.; Brau, A.; Fernandez-Gaucherand, E.;

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**21 Multi-scale feature extraction and nested-subset classifier design for
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Jiayong Zhang; Xiaoqing Ding; Changsong Liu;

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**22 Optimized design for insulator pollution performance, an easy to use
method free of conventional limitations**

Axelsson, R.; Johansson, T.;

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Rhee Man Kil; Imhoi Koo;

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Goto, S.; Azuma, Y.; Sumimoto, T.; Maruyama, T.; Eibo, S.;

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25 Risk estimates for dynamic hedging using convex probability bounds

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26 Partial discharge early warning system in gas-insulated switchgear

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27 A comprehensive method for optimal expansion planning using partic swarm optimization

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Microwave Theory and Techniques, IEEE Transactions on , Volume: 45 Issue: 6 , 1997

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[\[Abstract\]](#) [\[PDF Full-Text \(392 KB\)\]](#) **IEEE JNL****32 High-reliability tungsten-stacked via process with fully converted TiA formation annealing***Shohji, R.; Uda, M.; Nakamura, T.; Yoda, T.; Itoh, Y.;*

Semiconductor Manufacturing, IEEE Transactions on , Volume: 12 Issue: 3 , Aug Page(s): 302 -312

[\[Abstract\]](#) [\[PDF Full-Text \(772 KB\)\]](#) **IEEE JNL****33 Simulations of foot stability during gait characteristic of ankle dorsiflexion weakness in the elderly***Gefen, A.;*

Neural Systems and Rehabilitation Engineering, IEEE Transactions on [see also Trans. on Rehabilitation Engineering] , Volume: 9 Issue: 4 , Dec. 2001

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Basili, V.R.; Boehm, B.;
Computer , Volume: 34 Issue: 5 , May 2001
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[\[Abstract\]](#) [\[PDF Full-Text \(96 KB\)\]](#) **IEEE JNL**

35 Economic analysis and optimization of tool portfolio in semiconductor manufacturing

Yon-Chun Chou; Chuan-Shun Wu;
Semiconductor Manufacturing, IEEE Transactions on , Volume: 15 Issue: 4 , Nov
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1 A methodology for cost-risk analysis in the statistical validation of simulation

Osman Balci, Robert G. Sargent

April 1981 Communications of the ACM, Volume 24 Issue 4

Full text available: pdf(604.84 KB)

Additional Information: full citation, references, citings, index terms

Keywords: Hotelling's two-sample T2 test, cost-risk analysis, simulation, validation

2 Competitive solutions for online financial problems

Ran El-Yaniv

March 1998

ACM Computing Surveys (CSUR), Volume 30 Issue 1

Full text available: pdf(331.62 KB)

Additional Information: full citation, abstract, reference

This article surveys results concerning online algorithms for solving problems other assets. In particular, the survey focuses on search, replacement, and po

3 Discrete-event simulation optimization using ranking, selection, and multiple comparisons

James R. Swisher, Sheldon H. Jacobson, Enver Yücesan

April 2003 *ACM Transactions on Modeling and Computer Simulation (TOMACS)*,

Full text available:  pdf(187.81 KB)

Additional Information: full citation, abstract, references, citations, index terms

An important use for discrete-event simulation models lies in comparing and selecting the best design from among a finite set of k alternatives without incurring any physical costs. This article presents a survey of the literature on statistical methods for selecting the best design from among a finite set of k alternatives and multiple comparison procedures (MCPs). A comprehensive survey of each of recent unified R&S- ...

Keywords: Simulation optimization, multiple comparisons, ranking and selection

4 Convex separable optimization is not much harder than linear optimization

D. S. Hochbaum, J. George Shanthikumar

October 1990

Journal of the ACM (JACM), Volume 37 Issue 4

Full text available:  pdf(1.43 MB)

Additional Information: full citation, abstract, references, citations, index terms

The polynomiality of nonlinear separable convex (concave) optimization problems is established. The proof uses subdeterminants, and the polynomiality of such integer versions of such problems is proven. This paper presents a general procedure that solves linear programming problems. The conversion is polynomially bounded in the number of subdeterminants ...

5 Industry track papers: Exploiting response models: optimizing cross-sell and up-sell

Andrew Storey, Marc-david Cohen

July 2002 *Proceedings of the eighth ACM SIGKDD international conference on Knowledge discovery and data mining*

Full text available:  pdf(1.56 MB)

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The banking industry regularly mounts campaigns to improve customer value by targeting customers. In recent years this approach has gained significant momentum because of the availability of customer data and the improved analysis capabilities in data mining. Typically, these models are used to estimate the probability of a customer purchasing an additional product or service. Even with these ...

Keywords: assignment problems, constrained optimization, cross-selling, data mining, response models, up-selling

6 Sequential allocations that reduce risk for multiple comparisons

Stephen E. Chick, Koichiro Inoue

December 1998 *Proceedings of the 30th conference on Winter simulation*

Full text available:  pdf(116.47 KB) Additional Information: full citation, references, citations, index terms

7 **Advanced tutorials: Simulation optimization: a survey of simulation optimization**
James R. Swisher, Paul D. Hyden, Sheldon H. Jacobson, Lee W. Schruben
December 2000 Proceedings of the 32nd conference on Winter simulation
Full text available:  pdf(233.66 KB) Additional Information: full citation, abstract, references

Discrete-event simulation optimization is a problem of significant interest to practitioners. It involves the use of simulation to obtain information about an actual (or yet to be designed) system that can be modeled. This paper presents a brief survey of the literature on discrete-event simulation optimization up to the present. Swisher et al. (2000) provides a more comprehensive review of the field. Hwang (1989) covers the literature up to 1989.

8 **Force allocation through constrained optimization of stochastic response surfaces**
R. Garrison Harvey, Kenneth W. Bauer, Joseph R. Litko
December 1992 Proceedings of the 24th conference on Winter simulation
Full text available:  pdf(724.22 KB) Additional Information: full citation, references, index terms

9 **MANAGE—an interactive simulation model for evaluating the effects of organizational performance**
Michael D. Sherman
December 1981 Proceedings of the 13th conference on Winter simulation - V
Full text available:  pdf(951.78 KB) Additional Information: full citation, abstract, references

This paper reports on progress to date in developing a computerized simulation model for evaluating the effects of organizational performance. The model, called MANAGE, offers a framework within which a company can be simulated and assessed under a variety of structural configurations and behavioral parameters that impact upon successful communication within corporations. The paper describes the general framework of the model.

10 **Computing curricula 2001**
September 2001 Journal on Educational Resources in Computing (JERIC)
Full text available:  pdf(613.63 KB)  html(2.78 KB) Additional Information: full citation, references, citations, impact factor

11 **An application of simulation for studying the multi-national capital budgeting problem**
H. A. DiGiulio, R. V. Oakford
December 1978 Proceedings of the 10th conference on Winter simulation - V
Full text available:  pdf(651.93 KB) Additional Information: full citation, abstract, references

Multi National Corporations are continually faced with the problem of selecting capital budget constraints with the objective of maximizing the value of the firm at some point in the future. The benefits are realized and therefore the value of the firm in the future is uncertain. This paper addresses the problem of selecting an appropriate measure of worth for evaluating the appropriate decision process.

16 Software economics: a roadmap

Barry W. Boehm, Kevin J. Sullivan

May 2000 *Proceedings of the conference on The future of Software engineering*

Full text available:  pdf(2.58 MB) Additional Information: full citation, references, citings, index terms

17 Session 3A: markets and auctions II: An average-case budget-non-negativ

Yuko Sakurai, Makoto Yokoo

July 2002 *Proceedings of the first international joint conference on Autonomous a*

Full text available:  pdf(561.88 KB) Additional Information: full citation, abstract, refere

We develop a new strategy-proof double auction protocol characterized as ave well-known that there is no strategy-proof double auction protocol that satisfi and budget-balance simultaneously. The existing approach is to give up Paret enforcing budget-balance or budget-positive as a hard constraint. We propose budget-non negative condition. Al ...

Keywords: double auction, electronic commerce, mechanism design

18 Computing the distribution function of a conditional expectation via monte c

Shing-Hoi Lee, Peter W. Glynn

July 2003 *ACM Transactions on Modeling and Computer Simulation (TOMACS)*,

Full text available:  pdf(212.38 KB) Additional Information: full citation, abstract, referen

We examine different ways of numerically computing the distribution function conditioning element takes values in a finite or countably infinite outcome sp the distribution function itself are computed via Monte Carlo simulation. Given the quality of the estimator is gauged by the inverse of its mean square error budget allocated to estima ...

Keywords: Probability algorithms, conditional expectation, distribution functio

19 New advances for wedding optimization and simulation

Fred Glover, James P. Kelly, Manuel Laguna

December 1999 *Proceedings of the 31st conference on Winter simulation: Simulati*

Full text available:  pdf(110.11 KB) Additional Information: full citation, references, citin

20 Special issue on ICML: Policy search using paired comparisons

Malcolm J. A. Strens, Andrew W. Moore

March 2003

The Journal of Machine Learning Research, Volume 3

Full text available:  pdf(323.16 KB)

Additional Information: full citation,

Direct policy search is a practical way to solve reinforcement learning (RL) problems in large action spaces. The goal becomes finding policy parameters that maximize a reward function. This method converts this stochastic optimization problem into a deterministic one by generating random number sequences for comparing policies (Ng and Jordan, 2000). We compare this method to other comparison methods, using the mountain car problem ...

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21 Truth revelation in approximately efficient combinatorial auctions

Daniel Lehmann, Liadan Ita O'Fallaghan, Yoav Shoham

September 2002

Journal of the ACM (JACM), Volume 49 Issue 5

Full text available: pdf(177.02 KB)

Additional Information: full citation, abstract, reference

Some important classical mechanisms considered in Microeconomics and Game theory optimization problem. This is true of mechanisms for combinatorial auctions, practical importance, and in particular of the gold standard for combinatorial auctions (GVA). Traditional analysis of these mechanisms---in particular, their truth revealing properties and optimization problems are solved ...

Keywords: Combinatorial auctions, computational complexity, mechanism design

22 Pricing computer services: queueing effects

Haim Mendelson

March 1985

Communications of the ACM, Volume 28 Issue 3

Full text available: pdf(1.20 MB)

Additional Information: full citation, abstract, references, citations

This article studies the effects of queueing delays, and users' related costs, on computing resources. It offers a methodology for setting price, utilization, and users' time, and it examines the implications of alternative control structures, assigned to the data processing manager.

23 On targeting Markov segments

Moses Charikar, Ravi Kumar, Prabhakar Raghavan, Sridhar Rajagopalan, Andrew May 1999 Proceedings of the thirty-first annual ACM symposium on Theory of com

Full text available:  pdf(772.50 KB)

Additional Information: full citation, references, citings, index terms

24 An application of optimization-by-simulation to discrete variable systems

Young H. Lee, Farhad Azadivar

December 1985

Proceedings of the 17th conference on Winter simulation

Full text available:  pdf(462.72 KB)

Additional Information: full citation, abstract, ref

An algorithm is being developed for optimization of discrete variable stochastic simulation. The algorithm is basically a complex type search method that integrates capabilities built in the procedure allows it to take into account the stochastic model and arrive at a reasonable solution with a certain level of confidence. The obtained from this pro ...

25 Optimizing the selection of VV&A activities: a risk/benefit approach

Paul R. Muessig, Dennis R. Laack, John W. Wroblewski

December 1997 Proceedings of the 29th conference on Winter simulation

Full text available:  pdf(706.44 KB)

Additional Information: full citation, citings, index terms

26 Methodology for allocating resources for data quality enhancement

Donald P. Ballou, Giri Kumar, Tayi

March 1989

Communications of the ACM, Volume 32 Issue 3

Full text available:  pdf(982.91 KB)

Additional Information: full citation, abstract, references, ci

The issue of effective use of resources committed to data integrity maintenance parameter estimates that are iteratively refined to partition available resource

27 An efficient sequential quadratic programming formulation of optimal wire s routing

Paul B. Morton, Wayne Dai

April 1999

Proceedings of the 1999 international symposium on Physical desi

Full text available:  pdf(857.65 KB)

Additional Information: full citation, references, citin

28 Inter disciplinary approaches to the design of dependable computer system software engineering through constraints identification, solution space optir

Denis Besnard, Anthony T. Lawrie

March 2002 *Proceedings of the 2002 ACM symposium on Applied computin*

Full text available:  pdf(714.94 KB)

Additional Information: full citation, abstract, refere

Design is a complex activity that can be analysed from a wide variety of persp individual problem solving process, taking into account psychological argumen involved in the design process, namely the constraints identification, the optim process. We highlight a three-dimensional framework of how the constraints i which, in turn, determ ...

Keywords: cognitive psychology, design faults, human-error, industrial design

29 Compilers 2: Hybrid analysis: static & dynamic memory reference analysis

Silvius Rus, Lawrence Rauchwerger, Jay Hoeflinger

June 2002 *Proceedings of the 16th international conference on Supercomput*

Full text available:  pdf(349.43 KB)

Additional Information: full citation, abstract, reference

We present a novel Hybrid Analysis technology which can efficiently and seam analysis of memory references into a single framework that is capable of perf can generate necessary information for most associated memory related optim parallelization by extracting run-time assertions from any loop and generating from a low cost sca ...

Keywords: hybrid analysis, inter-procedural analysis, run-time analysis, run-t

30 A survey of ranking, selection, and multiple comparison procedures for disc

James R. Swisher, Sheldon H. Jacobson

December 1999 *Proceedings of the 31st conference on Winter simulation: Simulati*

Full text available:  pdf(123.44 KB)

Additional Information: full citation, references

31 Novel design methodologies and signal integrity: Hybrid hierarchical timing performance and low power DSP

Kaijian Shi, Graig Godwin

June 2003 [Proceedings of the 40th conference on Design automation](#)

Full text available:  pdf(153.66 KB)

Additional Information: [full citation](#), [abstract](#), [referenc](#)

A hybrid hierarchical timing closure methodology has been developed to combine hierarchical timing closure method and flat design based logic-physical combination, high performance and ultra-low power DSP which has been used in a number of applications. The implementation details of the methodology are provided.

Keywords: DSP, chip integration, methodology, placement optimization, timing closure, hierarchical timing closure, flat design, logic-physical combination, high performance, ultra-low power, applications.

32 Simulation systems for logistics support planning

Donald F. Blumberg

December 1969

[Proceedings of the third conference on Applications of simulation in logistics support planning](#)

Full text available:  pdf(664.20 KB)

Additional Information: [full citation](#), [abstract](#), [referenc](#)

Many organizations now operate, or are planning the operation of complex logistics support systems that defy analysis by any of the existing analytical techniques and inventory management methods. These systems are characterized by having a mix of high-value, repairable parts with relatively low repair rates. The support systems are generally composed of several locations where the parts are not necessarily the same. The given problem is to ...

33 EPIC compilation: Optimizations to prevent cache penalties for the Intel® Itanium® processor

Jean-Francois Collard, Daniel Lavery

March 2003 [Proceedings of the international symposium on Code generation and optimization](#)

Full text available:  pdf(1.28 MB) 

Additional Information: [full citation](#), [abstract](#), [referenc](#)

This paper describes scheduling optimizations in the Intel® Itanium® compiler to reduce the micro-architectural effects on the Itanium 2 processor. This paper does not treat cache penalties, which probably all processors have in one form or another, even in the absence of memory references. The improvement obtained ...

34 IS '97: model curriculum and guidelines for undergraduate degree program

Gordon B. Davis, John T. Gorgone, J. Daniel Couger, David L. Feinstein, Herbert J. Johnson, [ACM SIGMIS Database](#), Guidelines for undergraduate degree programs in information systems, Volume 1

Full text available:  pdf(7.24 MB)

Additional Information: [full citation](#), [abstract](#), [referenc](#)

35 Combinatorial auctions for supply chain formation

William E. Walsh, Michael P. Wellman, Fredrik Ygge

October 2000 Proceedings of the 2nd ACM conference on Electronic commerce

Full text available:  pdf(4.36 MB) Additional Information: full citation, references, citings, index terms

36 Curriculum 68: Recommendations for academic programs in computer science committee on computer science

William F. Atchison, Samuel D. Conte, John W. Hamblen, Thomas E. Hull, Thomas McCluskey, Silvio O. Navarro, Werner C. Rheinboldt, Earl J. Schweppe, William V. March 1968

Communications of the ACM, Volume 11 Issue 3

Full text available:  pdf(6.63 MB)

Additional Information: full citation, references, citings, index terms

Keywords: computer science academic programs, computer science bibliography, computer science curriculum, computer science education, computer science graduate programs

37 Software trustability analysis

W. E. Howden, Yudong Huang

January 1995 ACM Transactions on Software Engineering and Methodology (TOS)

Full text available:  pdf(2.04 MB)

Additional Information: full citation, abstract, references, citings, index terms

A measure of software dependability called trustability is described. A program is confident that p is free of faults. Trustability measurement depends on detectability probability that it will detect faults, when there are faults present. Detectability conditions under which one testing and analysis method is more effective than another are ...

Keywords: analysis, dependability, detectability, failure density, statistical, testing

38 A self-optimizing embedded microprocessor using a loop table for low power

Frank Vahid, Ann Gordon-Ross

August 2001 Proceedings of the 2001 international symposium on Low power electronics

Full text available:  pdf(230.48 KB)

Additional Information: full citation, references, citings, index terms

Keywords: cores, embedded systems, low-power, parameterized architectures, system-on-a-chip, tuning

39 Social Analyses of Computing: Theoretical Perspectives in Recent Empiric

Rob Kling

January 1980

ACM Computing Surveys (CSUR), Volume 12 Issue 1

Full text available: pdf(3.98 MB)

Additional Information: full citation, references, citations, index terms

40 Area and performance tradeoffs in floating-point divide and square-root im

Peter Soderquist, Miriam Leeser

September 1996

ACM Computing Surveys (CSUR), Volume 28 Issue 3

Full text available: pdf(700.72 KB)

Additional Information: full citation, abstract, refere

Floating-point divide and square-root operations are essential to many scientific and engineering applications required in all computer systems that support the IEEE floating-point standard. However, most microprocessors provide only weak support for these operations. The latency and throughput of floating-point addition and multiplication, and square-root performance is often a bottleneck in case for high-performance computing applications.

Keywords: FPU, SRT, area and performance tradeoffs, division, floating-point,

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41 Quantifying the costs and benefits of architectural decisions

Rick Kazman, Jai Asundi, Mark Klein

July 2001 Proceedings of the 23rd international conference on Software engin

Full text available: pdf(171.03 KB) Publisher Site

Additional Information: full citation, abst

The benefits of a software system are assessable only relative has been developed to serve. In turn, these benefits result fro system's functionality and its quality attributes (such as perfor quality attributes are, in most cases, dictated by its architectur. argue in this paper that the software architecture is the crucial trad ...

42 Designing simultaneous simulation experiments

Paul Hyden, Lee Schruben

December 1999 Proceedings of the 31st conference on Winter simulation: Simulati

Full text available: pdf(284.17 KB)

Additional Information: full citation, references, citin

43 Optimal time borrowing analysis and timing budgeting optimization for latch

Shi-Zheng Eric Lin, Chieh Changfan, Yu-Chin Hsu, Fur-Shing Tsai

January 2002 ACM Transactions on Design Automation of Electronic Systems (TO

Full text available:  pdf(185.37 KB)

Additional Information: full citation, abstract, refere

An interesting property of a latch-based design is that the combinational path clock cycle as long as it can "borrow" time from the shorter paths in the subse lot of flexibility in designing circuits, especially high performance ones. Howe timing analysis. Finding the best clock period or determining how much time is difficult especia ...

Keywords: Cycle stealing, latch-based design, static timing analysis, time bor

44 Energy-aware design of embedded memories: A survey of technologies, ar

Luca Benini, Alberto Macii, Massimo Poncino

February 2003 ACM Transactions on Embedded Computing Systems (TECS), V

Full text available:  pdf(288.44 KB)

Additional Information: full citation, abstract, refere

Embedded systems are often designed under stringent energy consumption b battery size. Since memory systems consume a significant amount of energy imperative to balance power consumption and performance in memory system focuses on the trade-off between performance and energy consumption in pro their interconnections. Although memory design is as ...

Keywords: Embedded systems, embedded memories, integration, memories,

45 Cost-benefit methodology for office systems

Peter G. Sassone

July 1987 ACM Transactions on Information Systems (TOIS), Volume 5 Issu

Full text available:  pdf(1.27 MB)

Additional Information: full citation, abstract, references,

The time savings times salary (TSTS) approach is a widely used methodology information systems, yet its theoretical basis is largely unexplored. In this pa model, including five critical assumptions. We find that the model, though som However, we find that the time-saving-times-salary calculation, per se, is imp

...

46 Equilibrium bandwidth and buffer allocations for elastic traffics

Steven H. Low

June 2000 IEEE/ACM Transactions on Networking (TON), Volume 8 Issue 3

Full text available:  pdf(339.27 KB)

Additional Information: full citation, references, citings, index terms

Keywords: bandwidth and buffer allocation, elastic traffic, equilibrium allocation, quality of service, traffic engineering

47 Budgeting, simulation and statistical timing: Optimal integer delay budgeting

E. Bozorgzadeh, S. Ghiasi, A. Takahashi, M. Sarrafzadeh

June 2003 Proceedings of the 40th conference on Design automation

Full text available:  pdf(373.56 KB)

Additional Information: full citation, abstract, references, citings, index terms

Delay budget is an excess delay each component of a design can tolerate and budgeting has been widely exploited to improve the design quality. We present an algorithm. Due to numerical instability and discreteness of libraries of components in the optimization flow, integer solution for delay budgeting is essential. We prove a long standing old open problem in design optimization ...

48 Computing the distribution function of a conditional expectation via Monte Carlo

Shing-Hoi Lee, Peter W. Glynn

December 1999 Proceedings of the 31st conference on Winter simulation: Simulation

Full text available:  pdf(118.06 KB)

Additional Information: full citation, references, citings, index terms

49 Challenges in modeling demand for inventory optimization of slow-moving items

Frank Grange

December 1998 Proceedings of the 30th conference on Winter simulation

Full text available:  pdf(69.69 KB)

Additional Information: full citation, references, index terms

50 The impact of information systems on organizations and markets

Vijay Gurbaxani, Seungjin Whang

January 1991 Communications of the ACM, Volume 34 Issue 1

Full text available:  pdf(3.70 MB)

Additional Information: full citation, abstract, references, citings, index terms

The adoption of information technology (IT) in organizations has been growing rapidly. Technology has evolved from the automation of structured processes to system-wide integration. It has introduced change into fundamental business procedures. Indeed, it is believed that computers, companies will live by them, shaping strategy and structure to fit. While the importance of the rel ...

51 Mining the network value of customers

Pedro Domingos, Matt Richardson

August 2001 Proceedings of the seventh ACM SIGKDD international conference on

Full text available:  pdf(999.05 KB)

Additional Information: full citation, abstract, reference

One of the major applications of data mining is in helping companies determine if the expected profit from a customer is greater than the cost of marketing to that customer is executed. So far, work in this area has considered only the intrinsic profit from sales to her). We propose to model also the customer's *network value* based on the customers she ...

Keywords: Markov random fields, collaborative filtering, dependency network, marketing

52 AkBA: a progressive, anonymous-price combinatorial auction

Peter R. Wurman, Michael P. Wellman

October 2000 Proceedings of the 2nd ACM conference on Electronic commerce

Full text available:  pdf(346.01 KB) Additional Information: full citation, references, citations, index terms

Keywords: combinatorial auctions, equilibrium prices, progressive auctions

53 New directions in traffic measurement and accounting: Focusing on the ele

Cristian Estan, George Varghese

August 2003 ACM Transactions on Computer Systems (TOCS), Volume 21 Issue 3

Full text available:  pdf(1.03 MB)

Additional Information: full citation, abstract, references

Accurate network traffic measurement is required for accounting, bandwidth pricing, and other applications. These applications see the traffic as a collection of flows they need to measure. To increase, keeping a counter for each flow is too expensive (using SRAM) or slow. We propose state-of-the-art methods (Cisco's sampled NetFlow), which count periodically the large flows. Previous work showed ...

Keywords: Network traffic measurement, identifying large flows, on-line algorithms

54 Session 7A: bidding and bargaining agents II: Strategic sequential bidding

Gerald Tesauro, Jonathan L. Bredin

July 2002 Proceedings of the first international joint conference on Autonomous a

Full text available:  pdf(162.84 KB)

Additional Information: full citation, abstract, reference

We develop a general framework in which real-time Dynamic Programming (D strategies in a broad class of auctions characterized by sequential bidding and states are represented primarily by an agent's holdings, and transition probab history, along the lines of the "belief function" approach of Gjerstad and Dickh combined with a forecast of ...

Keywords: auctions, bidding and bargaining agents, dynamic programming, e simulation

55 A graph-based system for network-vulnerability analysis

Cynthia Phillips, Laura Painton Swiler

January 1998 Proceedings of the 1998 workshop on New security paradigms

Full text available:  pdf(749.39 KB) Additional Information: full citation, references, citations, index terms

Keywords: attack graph, computer security, network vulnerability

56 Wire packing: a strong formulation of crosstalk-aware chip-level track/layer programming solution

Rony Kay, Rob A. Rutenbar

May 2000 Proceedings of the 2000 international symposium on Physical design

Full text available:  pdf(292.95 KB)

Additional Information: full citation, references, citations, index terms

57 Advanced tutorials: Options pricing: using simulation for option pricing

John M. Charnes

December 2000

Proceedings of the 32nd conference on Winter simulation

Full text available:  pdf(76.67 KB)

Additional Information: full citation, abstract

Monte Carlo simulation is a popular method for pricing financial options and o availability of powerful workstations and recent advances in applying the tool makes simulation accessible to many users who would otherwise avoid progra derivative securities. This paper presents examples of option pricing and varia implementation with Crystal Ball ...

58 XML indexing and compression: Containment join size estimation: models

Wei Wang, Haifeng Jiang, Hongjun Lu, Jeffrey Xu Yu

June 2003 Proceedings of the 2003 ACM SIGMOD international conference on o

Full text available:  pdf(301.92 KB)

Additional Information: full citation, abstract, refere

Recent years witnessed an increasing interest in researches in XML, partly due to the *de facto* standard for data interchange over the internet. A large amount of work has been done on XML indexing and compression, XML query processing and XML models and query processing techniques. However, few works have addressed the problem of estimating the size of containment joins. In this paper, we report our study on one of the challenges in XML query optimization: containment join size estimation. The proposed models for containment join size estimation are well accepted by the experiments.

59 Strategyproof cost-sharing mechanisms for set cover and facility location problems

Nikhil R. Devanur, Milena Mihail, Vijay V. Vazirani

June 2003 Proceedings of the 4th ACM conference on Electronic commerce

Full text available:  pdf(144.51 KB)

Additional Information: full citation, references, index terms

Keywords: cost sharing, facility location, mechanism design, set cover

60 Provably good global buffering by multi-terminal multicommodity flow approaches

Feodor F. Dragan, Andrew B. Kahng, Ion Mandoiu, Sudhakar Muddu, Alexander Zelenskiy

January 2001 Proceedings of the 2001 conference on Asia South Pacific design automation conference

Full text available:  pdf(143.82 KB)

Additional Information: full citation, abstract, reference

To implement high-performance global interconnect without impacting the performance of the system, the use of buffer blocks is becoming increasingly popular in structured interconnection networks. Recent works by Cong, Kong and Pan [5] and Tang and Wong [10] have addressed the problem of how to perform global buffering by multi-terminal multicommodity flow approaches. In this paper, we address the problem of how to perform global buffering by multi-terminal multicommodity flow approaches given an existing buffer block plan. We give a provably good global buffering algorithm.

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- 1 [6,662,357](#) [T Managing information in an integrated development architecture framework](#)
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- 10 [6,636,242](#) [T View configurer in a presentation services patterns environment](#)
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- 12 [6,629,293](#) [T Block based design methodology](#)
- 13 [6,629,081](#) [T Account settlement and financing in an e-commerce environment](#)
- 14 [6,622,291](#) [T Method and apparatus for physical budgeting during RTL floorplanning](#)
- 15 [6,615,253](#) [T Efficient server side data retrieval for execution of client side applications](#)
- 16 [6,615,199](#) [T Abstraction factory in a base services pattern environment](#)
- 17 [6,615,166](#) [T Prioritizing components of a network framework required for implementation of technology](#)
- 18 [6,611,867](#) [T System, method and article of manufacture for implementing a hybrid network](#)

19 6,611,726 **T** Method for determining optimal time series forecasting parameters

20 6,606,744 **T** Providing collaborative installation management in a network-based supply chain environment

21 6,606,660 **T** Stream-based communication in a communication services patterns environment

22 6,606,615 **T** Forecasting contest

23 6,603,428 **T** Multiple pass location processing

24 6,601,234 **T** Attribute dictionary in a business logic services environment

25 6,601,192 **T** Assertion component in environment services patterns

26 6,594,800 **T** Block based design methodology

27 6,587,590 **T** Method and system for computing 8.times.8 DCT/IDCT and a VLSI implementation

28 6,584,936 **T** Animal caging and biological storage systems

29 6,578,068 **T** Load balancer in environment services patterns

30 6,574,778 **T** Block based design methodology

31 6,571,738 **T** Animal caging and biological storage systems

32 6,571,282 **T** Block-based communication in a communication services patterns environment

33 6,567,957 **T** Block based design methodology

34 6,567,824 **T** Integrated inventory management system

35 6,563,460 **T** Collision recovery in a wireless location system

36 6,562,943 **T** Peptide epitopes recognized by disease promoting CD4+ T lymphocytes

37 6,550,057 **T** Piecemeal retrieval in an information services patterns environment

38 6,549,949 **T** Fixed format stream in a communication services patterns environment

39 6,539,403 **T** Method and system for facilitating networked information exchange

40 6,539,396 **T** Multi-object identifier system and method for information service pattern environment

41 6,536,037 **T** Identification of redundancies and omissions among components of a web based architecture

42 6,535,603 **T** Local loop telecommunication repeater housings employing thermal collection, transfer and distribution via solid thermal conduction

43 6,529,948 **T** Multi-object fetch component

44 6,529,909 **T** Method for translating an object attribute converter in an information services patterns environment

45 6,519,571 **T** Dynamic customer profile management

46 6,519,465 **T** Modified transmission method for improving accuracy for E-911 calls

47 6,510,223 **T** Local loop telecommunication repeater housings employing thermal collection, transfer and distribution via solid thermal conduction

48 6,502,213 **T** System, method, and article of manufacture for a polymorphic exception handler in environment services patterns

49 6,496,850 **T** Clean-up of orphaned server contexts

50 6,492,944 **T** Internal calibration method for receiver system of a wireless location system

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51 [6,483,460](#) T [Baseline selection method for use in a wireless location system](#)

52 [6,477,795](#) T [Excavator data acquisition and control system and process](#)

53 [6,477,665](#) T [System, method, and article of manufacture for environment services patterns in a netcentric environment](#)

54 [6,477,580](#) T [Self-described stream in a communication services patterns environment](#)

55 [6,477,520](#) T [Adaptive travel purchasing optimization system](#)

56 [6,473,794](#) T [System for establishing plan to test components of web based framework by displaying pictorial representation and conveying indicia coded components of existing network framework](#)

57 [6,473,084](#) T [Prediction input](#)

58 [6,463,290](#) T [Mobile-assisted network based techniques for improving accuracy of wireless location system](#)

59 [6,442,748](#) T [System, method and article of manufacture for a persistent state and persistent object separator in an information services patterns environment](#)

60 [6,438,594](#) T [Delivering service to a client via a locally addressable interface](#)

61 [6,438,573](#) T [Real-time programming method](#)

62 [6,434,628](#) T [Common interface for handling exception interface name with additional prefix and suffix for handling exceptions in environment services patterns](#)

63 [6,434,568](#) T [Information services patterns in a netcentric environment](#)

64 [6,427,132](#) **T** System, method and article of manufacture for demonstrating E-commerce capabilities via a simulation on a network

65 [6,408,263](#) **T** Management training simulation method and system

66 [6,405,364](#) **T** Building techniques in a development architecture framework

67 [6,400,320](#) **T** Antenna selection method for a wireless location system

68 [6,389,379](#) **T** Converification system and method

69 [6,389,015](#) **T** Method of and system for managing a SONET ring

70 [6,388,618](#) **T** Signal collection system for a wireless location system

71 [6,370,573](#) **T** System, method and article of manufacture for managing an environment of a development architecture framework

72 [6,363,411](#) **T** Intelligent network

73 [6,351,235](#) **T** Method and system for synchronizing receiver systems of a wireless location system

74 [6,345,239](#) **T** Remote demonstration of business capabilities in an e-commerce environment

75 [6,341,292](#) **T** Spreadsheet-based network information exchange with two-part cache

76 [6,339,832](#) **T** Exception response table in environment services patterns

77 [6,334,059](#) **T** Modified transmission method for improving accuracy for e-911 calls

78 [6,332,163](#) **T** Method for providing communication services over a computer network system

79 [6,324,647](#) **T** System, method and article of manufacture for security management in a development architecture framework

80 [6,317,604](#) **T** Centralized database system for a wireless location system

81 [6,317,081](#) **T** Internal calibration method for receiver system of a wireless location system

82 [6,308,072](#) **T** Method and apparatus for controlling a wireless communication system

83 [6,292,556](#) **T** Local loop telecommunication repeater housings employing thermal collection, transfer and distribution via solid thermal conduction

84 [6,289,382](#) **T** System, method and article of manufacture for a globally addressable interface in a communication services patterns environment

85 [6,289,334](#) **T** Apparatus and method for decomposing database queries for database management system including multiprocessor digital data processing system

86 [6,285,321](#) **T** Station based processing method for a wireless location system

87 [6,282,531](#) **T** System for managing applied knowledge and workflow in multiple dimensions and contexts

88 [6,281,834](#) **T** Calibration for wireless location system

89 [6,269,467](#) **T** Block based design methodology

90 [6,266,013](#) **T** Architecture for a signal collection system of a wireless location system

91 [6,257,171](#) **T** Animal caging and biological storage systems

92 [6,256,773](#) **T** System, method and article of manufacture for configuration management in a development architecture framework

93 [6,243,497](#) **T** Apparatus and method for optimizing the rate control in a coding system

94 [6,236,955](#) **T** Management training simulation method and system

95 [6,195,922](#) **T** Excavator data acquisition and control system and process

- 96 [6,184,829](#) **T** [Calibration for wireless location system](#)
- 97 [6,172,644](#) **T** [Emergency location method for a wireless location system](#)
- 98 [6,119,376](#) **T** [Excavator data acquisition and control system and process](#)
- 99 [6,115,599](#) **T** [Directed retry method for use in a wireless location system](#)
- 100 [6,112,181](#) **T** [Systems and methods for matching, selecting, narrowcasting, and/or classifying based on rights management and/or other information](#)

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- 101 [6,097,336](#) T [Method for improving the accuracy of a wireless location system](#)
- 102 [6,092,047](#) T [Apparatus and method of composing a plan of flexible benefits](#)
- 103 [6,091,362](#) T [Bandwidth synthesis for wireless location system](#)
- 104 [6,085,216](#) T [Method and system for efficiently allocating resources for solving computationally hard problems](#)
- 105 [6,078,745](#) T [Method and apparatus for size optimization of storage units](#)
- 106 [6,023,692](#) T [Goal based tutoring system with behavior to control flow of presentation](#)
- 107 [5,994,675](#) T [Semiconductor processing furnace heating control system](#)
- 108 [5,963,939](#) T [Method and apparatus for an incremental editor technology](#)
- 109 [5,954,640](#) T [Nutritional optimization method](#)
- 110 [5,875,437](#) T [System for the operation and management of one or more financial accounts through the use of a digital communication and computation system for exchange, investment and borrowing](#)
- 111 [5,798,939](#) T [System for optimizing power network design reliability](#)
- 112 [5,742,806](#) T [Apparatus and method for decomposing database queries for database management system including multiprocessor digital data processing system](#)
- 113 [5,729,700](#) T [Methods and apparatus for facilitating execution of asset trades based on nonnegative investment risk, using overlapping time periods](#)
- 114 [5,704,142](#) T [Excavator data acquisition and control system and process](#)
- 115 [5,673,252](#) T [Communications protocol for remote data generating stations](#)
- 116 [5,659,985](#) T [Excavator data acquisition and control system and process](#)

117 [5,644,727](#) **T** System for the operation and management of one or more financial accounts through the use of a digital communication and computation system for exchange, investment and borrowing

118 [5,633,511](#) **T** Automatic tone scale adjustment using image activity measures

119 [5,615,109](#) **T** Method of and system for generating feasible, profit maximizing requisition sets

120 [5,553,407](#) **T** Excavator data acquisition and control system and method of use

121 [5,541,914](#) **T** Packet-switched self-routing multistage interconnection network having contention-free fanout, low-loss routing, and fanin buffering to efficiently realize arbitrarily low packet loss

122 [5,468,088](#) **T** Feedback control of groundwater remediation

123 [5,243,351](#) **T** Full aperture image synthesis using rotating strip aperture image measurements

124 [5,148,365](#) **T** Scenario optimization

